DIGITAL YACHT

Sonar Server

Your personal bathymetric chart generator for use with the Navionic s app

Sonar Server creates a wireless link between your boat's NMEA system and allows real time depth data to be streamed to the popular Navionic's Charting app for real time Sonar Chart displays. Find out more inside

Before... ...You Sail... ...After
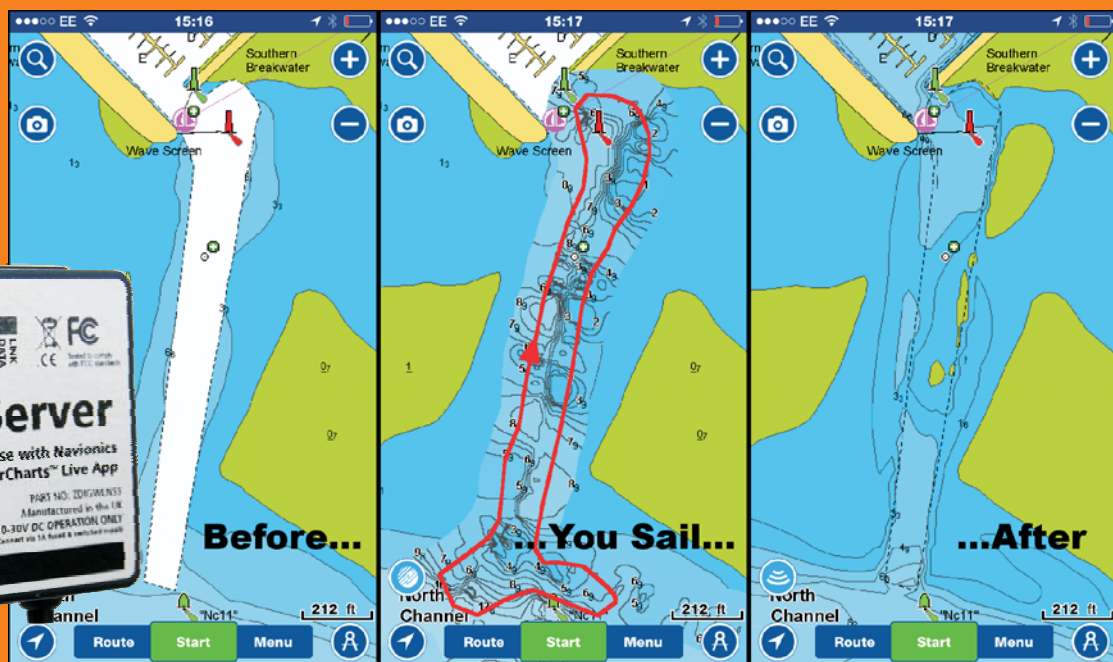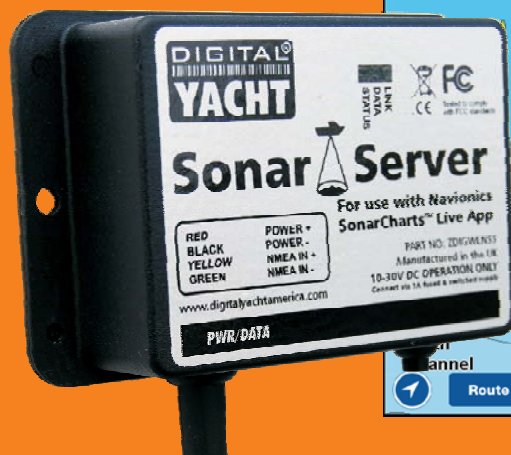
DIGITAL UPDATE

NOVEMBER 2015

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Sonar Server nominated for DAME award
iKommunicate Kickstarter project validates Signal K platform
New for METS 2015
Digital Yacht at Paris Boatshow
US product launch for Miami 2016

Sonar Server

Sonar Server and the Navionic s charting app with Sonar Charts Live brings a new dimension to bathymetry

Whoops!
It wasn t on the chart

Build Better Charts with Sonar Server & Navionics Sonar Charts Live

KEY FEATURES

Running aground is every skipper's nightmare. We rely on our depth sounder and also the soundings shown on charts for navigation but with many surveys carried out in the distant past, isn't it time for better charts?

Sonar Server is Digital Yacht's low cost wireless gateway from your boat's NMEA depth instrument or fish-finder to a smart phone or tablet running the popular Navionic's charting app. The app now features the ability to redraw bathymetry based on live data streamed from your boat's system.

THE NAVIONIC S APP

SonarCharts Live is the latest advance in SonarCharts technology allowing users to view sonar recordings in an exciting real-time display on the Navionic's app. The newly generated personal HD chart is then saved for private use on the device, while recorded depth data is anonymously shared with Navionics to improve SonarCharts for all boaters. All data is cross-checked with other community contributions to ensure accurate daily enhancements. SonarChart Live is truly fascinating to watch - as you move, you'll see the map expose the underwater surface and the contour details revealed. Sonar Server from Digital Yacht acts as a wireless gateway from on board electronics to the mobile device - sharing boat depth data with the app. In addition to depth information being transmitted, GPS data can also be sent allowing, for the first time, the Navionics app to utilise boat data for positioning on the chart as well as depth recording. This allows devices without a GPS, such as a "Wi-Fi Only" iPad or even an iPod Touch to utilise the charting app for real time navigation.

Sonar Server connects to the boat's NMEA 0183 system using a simple 2 wire connection. It creates a wireless network on board that can typically footprint a boat up to about 25m in length. No internet connection is required on board. The Navionic's Boating app is available for iOS and Android

**Find out more at www.sonarserver.com**
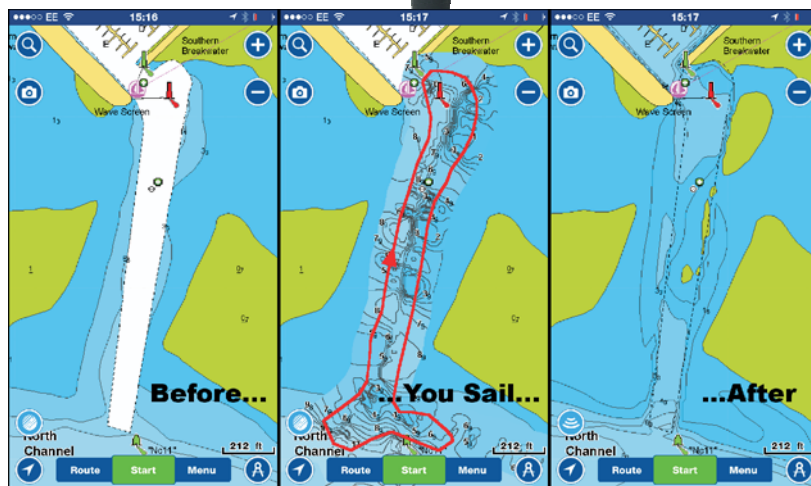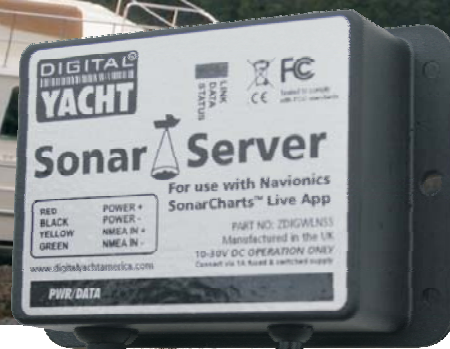
HOW IT WORKS

Before: This shows the dredged channel into the popular Parkstone Bay Yacht Club. The traditional charts just show it as a channel with no depth information

You sail: With Sonar Server installed we passed over the channel and you can see our track as the red line. In real time the charting is redrawn on the screen of the iPad/tablet allowing us to reveal hidden depth contours

After: When we return ashore and the smart phone or tablet has an internet connection, data is anonymously uploaded to the Navionic's server for reprocessing. A sophisticated algorithm compares and validates data, applies tidal offsets and allows a new "Sonar Chart" to be created which is then available for all to download next time they update charts within the app. This process typically takes a couple of weeks.

The new data clearly shows some areas on the starboard side of the channel which may cause concern. It's community boating at its best!

SYSTEM CONNECTIONS

METS 2015 DAME NOMINATED
SEE DIGITAL YACHT Hall 1:426
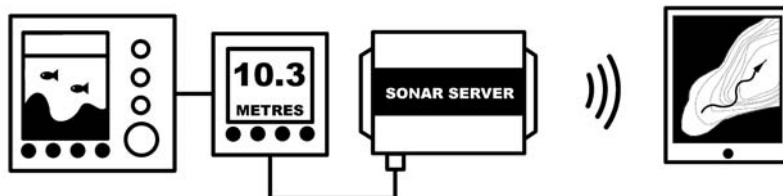
METS MARINE EQUIPMENT TRADE SHOW 17-19 NOVEMBER 2015

Digital Yacht will be exhibiting again at METS, Europe's largest marine equipment trade show from 17-19 November 2015

We're also delighted to have been nominated for a DAME award for the 3rd consecutive year with our new Sonar Server wireless product which is featured in this edition of Digital Update.

At this year's DAME award, there are 51 products nominated across all equipment sectors from nearly 1400 exhibitors.

We have a new stand location in Hall 1:426 and look forward to welcoming you there where we will be showcasing some exciting new products for 2016 including:

NEW!

WL70R - Our new low cost, high performance long range wifi solution with router and optional 3G/4G USB dongle connectivity for internet access afloat on multiple devices

Aqua Compact Pro PC - Razor fast mini PC suitable for running demanding graphics from Furuno TZ and Maxsea 3D navigation programs - even with radar overlay. Plus low power consumption too!

PARIS BOATSHOW 2015 - 5 TO 13 DECEMBER PORTE DE VERSAILLES EXHIBITION CENTRE

Digital Yacht France will have a dedicated stand at the 2015 Salon Nautique in Paris, 5-13 December 2015. We're located in the heart of the marine electronics area Hall 2.1, Stand B18. We're also excited to be showing our new PC solutions equipped with the stunning Maxsea/Furuno TZT software providing super fast 3D charting with radar and AIS overlay.

Nic Guerin who heads up Digital Yacht France commented: "This will be our first direct opportunity to showcase DY products at this show as well as providing some great show only offers. We have a limited number of free tickets for the show - drop us a line if you'd like one"
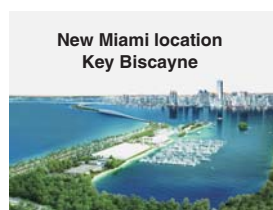
MORE DIGITAL YACHT EVENTS FOR EARLY 2016 TOO

London Boat Show
8-17 Jan 2016

Dusseldorf Boat Show
23-31 Jan 2016

Miami Boat Show
11-15 Feb 2016

RYA Instructors Conf
Jan Invitation Only

DIGITAL UPDATE NOVEMBER 2015

SIGNAL K, iKOMMUNICATE and a KICKSTARTER CAMPAIGN - THE BIGGEST SHAKE UP IN MARINE INTERFACING FOR 40 YEARS

In what looks like an industry first, Digital Yacht have taken to the crowd funding platform, Kickstarter, to introduce a new interfacing technology for the marine electronics market.

NMEA connectivity has been with us for the past 30 odd years and while reliable, well proven and ubiquitous, it struggles to adequately support smart devices and smart data and in particular the next generation of the internet of things afloat. There are also some legal issues in that products and apps must be certified which is costly and stifles the smaller application developers. However, things are changing with the introduction of a new open source platform called Signal K which has been quietly developing over the past few years and is now ready for mainstream adoption. You can find out more at www.signalk.org

Signal K aims to be the next generation solution for marine data exchange. It is intended to be used not only for communication between instruments and sensors on board a single vessel, but also to allow for sharing of data between multiple boats, aids to navigation, ports, marinas or any marine asset. It is designed to be easily implemented by web and mobile applications and to connect boats and ships to the Internet of Things Afloat. Interestingly, at this year's NMEA Conference in Baltimore, the Signal K presentations were the most attended of any and all the leading manufacturers have woken up to the potential.

Digital Yacht have designed a gateway called iKommunicate that links NMEA 0183 and NMEA 2000 based systems to the new Signal K format allowing existing marine electronics to integrate with the new standard. But like any emerging technology, a catalyst is needed to seed change so we've embarked on a Kickstarter campaign to gather early adopters and bring the product to market.

"Kickstarter isn't just about the funding element of a new product but also about the valuable direct relationship we can establish with early adopters who can provide so much information for applications. We see the co-existence of NMEA and Signal K being the perfect technology match and iKommunicate acts as an easy to install gateway" commented Nick Heyes, CEO of Digital Yacht. The project is live now and will run until mid December. You can find out more by just searching iKommunicate on line or visit the Kickstarter web site. Thanks for backing!

DIGITAL YACHT MUX100 DUAL CHANNEL NMEA MULTIPLEXER

The MUX100 is a 2 channel NMEA 0183 data combiner (multiplexer). Lots of marine electronic equipment features an NMEA 0183 interface to allow inter-connectivity between devices.

Developed over decades, it's become the industry standard and initially allowed data transfer rates of 4800 baud.

With the introduction of AIS in the past few years, a new higher speed of 38400 baud has become common but the two data streams can't be integrated without a specialist multiplexer like the MUX100. It features two ports - one configured for 4800 baud and the other for 38400 baud and allows the two data streams to be combined. It can also extract GPS data from the high speed port and scale down to 4800 baud for use with DSC VHF radios. This is ideal where an AIS transponder is fitted to the boat and saves having a separate GPS just for the VHF radio.

It can provide a quick and easy fix for lots of electronic installation problems and can also double up on the amount of equipment that can integrate into a plotter for example.

It's priced at £100/US$165 and is available now

DIGITAL YACHT NEXT GENERATION NAVIGATION PRESENTATION FOR YACHT CLUBS

October saw us present our Next Generation Navigation talk at the Cruising Association HQ in London. This topic is always well received with a look at the latest generation of technology within marine electronics including iPad navigation, new satellite positioning systems, AIS, interfacing, wireless internet access and a great Q&A session.

Let us know if your club or association would like a similar presentation.

Audience comment:

"He gave the best talk on electronic navigation and its present and future I have ever heard. He is engaging, a font of knowledge and inspirational"